## **LOOKING BACKWARD**

Changes Worked in the Landscape of West Virginia,

#### BY REM ORSELESS FATHER TIME.

Mr. Hu Maxwell's Contemplative Trip Through the Counties of Taylor, Monougalia, Marian, Harrison, Lawis, Ras shiph and Upshur-In Some Sections There are No Valleys, but Steep Ravines. An Interesting Description of the Topographical Chauges of the State.

Written for the Intelligencer

terested in the scene if we could, by some process, place ourselves back in time a few score thousand years and be permitted to look upon the landscapes which preceded those with which are now familiar. If our translation into past time extended only into thoucands of years, perhaps our first and greatest surprise would be in noting how little change has taken place from that period until the present; but there would be some change, and in certain localities it is possible to determine, from present slope of the surface, what the appearance of the former landscape was. I was especially impressed with the truth of this a short time ago in the course of a trip extending across Tay-lor, Monongalia, Marion, Harrison, Upr. Lowis and Randolph counties. I had been over much of the ground a

number of times before, but this time I went by bicycle, and by following the "ridge roads" when possible, I had a good opportunity of observing and studying the shapes of the watercourses below me, and the character of the adjacent hills. One of the most noticeable features in Taylor, Marion and Monongalia is that there are no valleys, simply steep and sharp ravines, with little or no level land lying along the afreams; while the hills all rise nearly to the same height, all have gently rounding tops and steep sides. A person standing on the summit of one of the innumerable ridges, and looking across the landscape ten or fifteen or twenty miles, sees only the tops of the hills, one beyond another in almost endless and monotronus succession, and the picture is not unlike that of a rollridge roads" when possible, I had a picture is not unlike that of a roll-prairie of Iowa or Nebraska. But ing prairie of Iowa or Nebraska. But the traveler who crosses what seems a rolling country, finds that it is traversed and cut by deep and steep ravines in all directions. He must be continually climbing down one slope and up the other, and if he is taking a bicycle slong with him, the process soon becomes wearisome, and he learns to inquire for the "ridge roads," which, instead of cutting straight across the ravines as some of the roads do, follow the tops of the winding ridges and for

instead of cutting straight across the ravines as some of the roads do, follow the tops of the winding ridges and for that reason are more nearly level. The interesting feature for contem-plation is that the country which now plation is that the country which now appears a rolling prairie when seen from such a distance that the network of ravines does not appear, was once actually a rolling prairie. At a time in geological history, not very far back, the ravines had not been cut. At just what time, or just how long ago, this state of affairs existed, is not for me to say, since more competent observers do not agree among themselves. But the ravines, as they exist now, are certainly the product of crossion which began long after the close of the Coal Age. It is new work. It is going on yet. The streams are cutting troughs deeper and sharper all the time.

Where Streams Ones Flewed.

Where Streams Once Plewed.

The conclusion is that there was a time, and a comparatively recent one, the streams which now occupy the bottoms of their steep ravines, flow the bottoms of their steep ravines, flowed along broad valleys high up toward
the summits of the hills. Every
stream, from the Monongahela, which
is the largest, to its smallest tributary,
very probably had much level land or
"bottom land" along its course, and the
bordering hills rose from the margins
of these valleys with gentle slopes. In
speaking of the country at that time as
a "colling prairie," the term should be
modified, for the evidence shows that
the hills rose with considerable elevation, but not so much, nor with such
abruptness, as at present. Since that
time, the streams have cut deep into
the bedrock, in some places hundreds of
feet below where they were once.

the reply is that the general appearance of the country shows it to have been eo; and the specific proof consists of fragments of the old valley bottoms far up the sides of the hills. Here and there along the Monongahela and its tributary streams may be seen terraces, skirting the sides of the hills. These vary in width from a few feet to half a mile. The streams, in cutting down through these bottom lands, washed the most of them away; but in places portions remain and tell us where the river once flowed. It is not my purpose most of them away; but in places portions remain and tell us where the river once flowed. It is not my purpose to enter into a discussion of river terraces in general in that part of the country, for there are many of them, ranging from near the river to far above it, and extending into Pennsylvania. Skilled geologists have studied them, and theories of their cause have been advanced. All of the terraces were probably not produced in the same manner. Some observers believe that the glacial epoch, in one manner or another, is responsible for a portion of them, either by backing the water from an fee dam at Cincinnati, five liundred feet high, or by blocking the streams with gravel until the rivers made new channels high among the hills. The highest terrace at Morganiown is two hundred and seventy-five feet above the present river; another is two hundred feet, another one hundred and seventy and another seventy-five. This shows that the river has had several valleys, one above the other. The high-set, of which any portion remains, is that of two hundred and saventy-five feet when the Monongahela flowed there, the hills did not rise far above its banks. Of course, all the tributary streams were at comparatively the same level. Had a traveler crossed the country then, he would have observed broad, level lands near the streams, with fow and gently sloping hills and ridges between. The country was worn down nearly to the base level. When the thills, finds lodgment in the valleys, because the rivers and creeks have not enough current to carry it out. It is

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such a country and such a condition as we now find in parts of the west, in Hilliois, Indiana and elsewhere. This was the condition of portions of Taylor, Monogalia and Marion counties. It was a somewhat rugged, rolling landscape, with lower hills, wider valleys and more slunglish streams than at present. The evidence is sufficient to warrant us in drawing such a picture of that landscape, ages ago, and probably ages before the first aborige of the American continent zaw it. Not only do the fragments of the ancient valley-bottoms now lying along the side of the hills tell us where the rivers once flowed; and not only may we conclude that we know nearly the shape and the heights of the hills in that age, but we are given a trustworthy glimpse of the forests, which in that remote lime covered the hills. Beneath the sand and clay which now cover the highest terrace, lags of wood have been found, much decayed.

Leaves Buried in Clay.

Professor I. C. White, that competent

Professor L. C. White, that competent and painstaking geologist who has devoted much time to the study of the

Monongahela terraces, found the leaves of our common forest trees buried in the clays which cover the highest terrace. They were beautifully preserved. From this, we know that the forests which covered the country then were practically the same as now. So, again the "rolling prairie" must be further qualified. It was probably covered with forests, which may be a contradiction of terms, as a prairie is usually understood to be open country.

That the malority of the terraces are remnants of old river bottoms is unquestioned; but there is reason to believe that some of them have been under water since the river ceased flowing there. This is accounted for on the theory that during the Glacial Age the vast fields of tee which pushed southward from Canada, crossed Ohio and Indiana, into Kentucky, and formed a dam across the Ohio by filling the channel for forty or fifty miles in the vicinity of Cincinnati, it is believed that this ice dam was not less than five hundred feet high, and that it backed the water more than three hundred feet deep over the site of Pittaburgh. If so, the backwater would have ascended the Valley River eight or nine miles above Grafton, and would have second sixty feet deep on the site of Weston. The terraces along the Monongahela and its tributaries contain much material which might have been deposited on them by ice floating in a lake, such as sand, clay and bowlders. These might have been frozen in cakes of ice, and after floating about, might lodge on the terraces and against the face of the hills. These deposits have been found in large quantities along the Monongahela near Morgantown, up to an elevation of two hundred and seventy-five field and the river: at Clarksburg, on the West Fork, one hundred and thirty feet above the river; they are abundant at Fairmont, up to two hundred feet above the river; and at Weston seventy five field and the river. The author of the morgantom of the second of the moles of the role of the south of the second of the role of the field of the second of the

A Different Topography.

A Laftreent topography.

A different topography is observed as Weston is approached. The water-coarses are no longer sharp raymes, but on the contrary the bettom. The streams are not deepening their changes and, while, in its upper pea level as the streams are not deepening their changes and the streams. It has neverthees, extinct a streams are not deepening their changes are not to be to A different topography is observed as Weston is approached. The water-

Roaring Creek places one on the top of Rich Mountain. It is a lofty range, even in the gap where the road crosses. A Lofty Battlegound.

Here was fought the battle of Rich Mountain in 1861, It was a sublime battleground. The "battle above the Mountain in 1891, I was a assume battleground. The "battle above the clouds" on Lookout Mountain, so celebrated in history, was not half as high as that at Rich Mountain, where Generals McClellan and Rosecrans first met the Confederates on the field, and by defeating Colonel Pegram, danked General Zarnett and drove the Confederate forces out of Northwestern Virginia. I had climbed the western slope of the mountain in a thunderstorm but when I reached the top, the clouds broke away temperarily, and a spiendid panorama lay before me. Beneath, the broad and level Tygart valley. Beyond, to the south and east, toiled the ranges of the Alleghenies with their outlying spure and ridges. From where I was, I could see five separate thunderstorms following one another along the first mountains, the most distant thirty or forty miles away, the nearest eight or ten miles. A descent of five

valley; but the surrounding this are higher and more rugged, risting in a distance into mountains. This region is well back in the plateau of West Virginla, which has its culmination in the high country of Pocahontas and Pendiction counties. The streams have cut deep, but the hills have not yet been worn down to the graceful rounded forms of those about Buckhannon. The valleys have been widened, and the soil is deep. The same condition prevails both above and below Beverly. At the town of Elikins, seven miles below, the level lands are wide. The valley of Leading Creek, which is a tributary of the Tygart river, shows this feature in a remarkable degree.

The question is, will those broad valleys share the fate of similar valleys which once held the waters of the Monogabela? The answer must be, yes. Agents are at work which must ultimatals can through the floors of the

which once held the waters of the Monogahela? The answer must be, yes, Agents are at work which must ultimately cut through the floors of the Buckhamon and the Tygarts valley, and saw deep ravines far below the present level of the river bottoms. The sluggish rivers are not cutting fast now as they flow quietly down the level valleys; but the work is being done elsewhere. It is far down stream. The falls in the river eight miles below Grafton will some time reach Beverly and Buckhamon. Falls, cataracts and rapids always travel up stream. They west their way back through the rock, age after age, and finally reach the sources of the streams. The Valley Falls were no doubt once below Morgantown. They are now withing a few miles of Grafton. This is true, at least, of the perpendicular which they represent; but the characters of the ledges change, and the form of the cataracts changes also, now being vertical, now being long and turbulent rapids. But the water is constantly doing its work and cutting a deep channel up toward the source of the stream. The river is nearly all rapids for many miles above Grafton. These rapids all move up stream. They came up the Monouranearly all rapids for many miles above Grafton. These rapids all move up stream. They came up the Monongahola past Morgantown ages ago, and lowered that stream from its ancient valley-floor to its present ravine; they will reach the upper valleys at Beverly and Buckhannon and will work the same destruction there. The allitudes of those present broad valleys will then be shown by fragments of terrace here and there, along the face of the hills, as the remnants of ancient valley-floors are now shown by the terraces along the faces of the Monongalla hills.

What the Feture May Sec.

What the Future May Sec. Macaulay's vision of the South Sea islander sitting in far future time, on one of the broken and half-buried arches of London Bridge and wondering what ancient people lived there, might be made use of, with slight change, to fit a case nearer home. In vague and future ages, when the Tygart viver flows in a narrow gorge bundreds of feet below case nearer home. In vague and induce ages, when the Tygart river flows in a narrow gorge bundreds of feet below its present bed, a traveller may climb the precipitous hills above the stream and reach a fragment of 'terrace,' where the town of Elkins now stands, and when he discovers in the bottom of a gully of the rain-washed slope, heavy stone foundations of man's handicraft, he may wonder what ancient race of "cliff dwellers" resided there, and may admire the "civilization" of the forgest ten people. If the forest leaves found by Professor White in the clay on one of the Monongahela terraces have survived from the long ago until the present, it is no more than practical reason.

of the Monongahela terraces have survived from the lone ago until the present, it is no more than practical reason to conclude that the more substantial creations of man's civilization will endure an equal length of time.

The eastern tributary of the Monongahela in this state is Cheat river. It flows through a country topograhically different from that through which the more westerly tributaries flow and consequently the same conditions are not met with. The Cheat breaks across higher and more rugged mountains; and, while, in its upper parts, it has not cut down as nearly to see level as the other streams, it has, nevertheless, cut lisself a much deeper channel than any other tributary of the Monongahela. It has had more work to do in reaching its present level. While the Monongahela and its western vibutaries flow almost exclusively through rocks of the Carboniferous age. Cheat has sawed through the Carboniferous rocks and far down into the Devonian. It probably has never had wider or more nearly level valleys than at present, It has always flowed through gorges with the Monongahela, and there a local broadening. Yet, it has its terraces as clearly marked as any on the Monongahela. The best pre-

THE BIG CITY DOCTOR

At the Annual Meeting of the State Medi-cal Society in a Little City of a Little State. To the Editor of the Intelligencer.

To the Editos of the Intelligencer.
SIR:—The following incident at the last meeting of the State Medical Society, at Charleston, while explain itself:
There was a great doctor in a great medical city, not find work enough in his own home.
For the people found him out. Oh, what a great pity!
So be was compelled in other places to roam.

So he was compelled in other places to roam.

He stopped at the capital of a state much smaller,

Where he thought that the people would's know very much.

Where he would, without doubt, be in knowledge much taller;

Thinking surely the people's spare cash he could touch.

It chanced while he was there that the Medical Society

Held its annual meeting in that capital town.

Where papers were read of almost every variety, dical questions were all done

Our Hig City Doctor said: "Here's my opportunity To make myself famous in this little I will force myself on them with great

Of my superior skill and talents I'll That will give me a prestige in this rural It will be an endorsement of infinite

worth.

My praise will be sung in words flattering and witty:

The fame of my skill will be spread south and north.

So be told a few members that he had a

So be told a few members that he had a good paper.

That before the society he should be happy to read:

It would be more instructive, in knowledge much desper, lake the members far wiser if its lessons they'd heed.

Some fell into the trap and allowed him to fool them, but some more discretion and wisdom displayed.

They said that the fox was not able to guil them, Although from the country, so soft

Although from the country, so soft they're not made. They adopted a motion that volunteer pa-Must, by no means, before regular es-says be read.

This aroused the man's ire and he cut

says be read.

This aroused the man's ire and he cut some queer capers;

He grow so enraged he almost lost his head. He said if in such a mean way he were slighted. He'd withdraw and not give us his pa-

per at all.
No tears then were shed; every one was delighted When he put up his paper and went from the hall. our joys tried to throw a

Is then on our joys the his his hear to our magnificent of his ire. g to come to our magnificent

Thus hoping to quench the doctors' jubilant fre.
But the banquet went on with its fun and hilarity:
All thoughts of the angry doctor to oblivion were tossed All thoughts of the angry doctor to ob-livion were tossed.

No doubt he mound over his unpopu-larity.

A the change of the change

And cursed his ill luck for the chance he had lost.

Now, to have some revenge for this dreadful his goose quill and writes a critique.

Abounding in falsehood and Abounding in falsehood and slanderous malignity.

malignity.
Thinking thus for his slight his ven-geance to wreak.
He said all the papers were tame, without

He said all the papers were taken, which merit, Poorly written, not one of them up to the times.

That the members displayed a great absence of spirit.

Having failed the high mountain of science to climb.

In regard to the banquet he makes a false insimuation

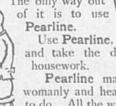
Which, if spoken out boldly, meant lies would be proved;

For nothing went wrong on that festive occasion,

occasion, on the utmost propriety moved. If my readers recall to their minds the old table of the propriety moved of the control of the contr

the way the work of the human race is ( proportioned out and distributed. Look at the house-drudgery of women. nardness and wearing-nations of most men!

The only way out Compare it in its hardness and wearingness with the occupations of most men! of it is to use



and take the drudgery away from

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